

SOUTHERN UNIVERSITY AND A&M COLLEGE

BATON ROUGE CAMPUS

REQUEST FOR BID

BID NUMBER 10308

MARCH 24, 2023-10:30 AM

LASER/LIGHT FLASH TEST SYSTEM

Date Posted/Released:

March 13, 2023

Deadline to submit inquiries:

March 17, 2023 by 5:00 PM

Submit inquiries to:

***Linda Antoine
linda_antoine@subr.edu***

Deadline to respond to inquiries:

March 21, 2023 by 5:00 PM

Deadline to submit bid:

March 24, 2023 by 10:30 AM

Submit bid to:

Southern University and A&M College

Purchasing Department

PO Box 9534 or

James J. Prestage Drive

J. S. Clark Administration Building Annex, First Floor

Baton Rouge, LA 70813

Ph. 225-771-4587 or 771-2804

SOUTHERN UNIVERSITY AND A & M COLLEGE
PURCHASING DEPARTMENT
Post Office Box 9545
J.S. Clark Administration Annex Building
James J. Prestage Drive
1st Floor East
Baton Rouge, Louisiana 70813

REQUEST FOR BID: Laser/Light Flash Test System

Bids will be received at the above office until **March 24, 2023@10:30 a.m.** and at that time opened and read. Bids received after above specified time and date will be returned unopened.

BID OF: _____

 (Company's Name)
ADDRESS: _____

 (Company's Address)

Bids shall be mailed to:
 Southern University
 Purchasing Department
 Post Office Box 9534
 Baton Rouge, Louisiana 70813

As an alternative, bids may be hand delivered to:
 Southern University
 Purchasing Department
 1st Floor East – James L. Prestage Drive
 J. S. Clark Administration Annex Building
 Baton Rouge, Louisiana 70813

Vendors are solely responsible for ensuring timely delivery of their bids. The Purchasing Department is not responsible for any delays caused by vendors' chosen means of bid delivery. Failure to meet bid return date and time shall result in rejection of bids.

The terms on the bid are to include transportation charges to Southern University-Baton Rouge, Louisiana. Please enter your price on the attached bid price sheet. If additional space is required for the description attach a separate sheet and it will be considered part of your bid. Our terms are Net 30. Bids must comply with LA RS 39:1551-1736, and General Terms and Conditions.

NOTE: Southern University reserves the right to award on an all or none basis or to more than one vendor.

Vendor: _____

 Company's Name
Signature: _____
Print Name: _____
Title: _____
Date: _____
Telephone Number: _____
Fax Number: _____
FEIN/TAX ID #: _____
Email Address: _____

Bid #10308

THE ITEMS ON THIS PROPOSAL ARE TO BE TRANSPORTATION
CHARGES PREPAID TO SOUTHERN UNIVERSITY
BATON ROUE, LOUISIANA
BID #10308

Laser Flash Test System

- 1 1 each Laser Flash Test System _____
- 2 1 lot Shipping, if applicable _____

BID AS SPECIFIED—Provide Make/Model/Brand

Initial and return with bid _____

BID NO. 10308

EXECUTION OF BID FORM

SOUTHERN UNIVERSITY AND A & M COLLEGE
PURCHASING DEPARTMENT
Post Office Box 9534
Baton Rouge, Louisiana 70813
Telephone Number (225) 771-4580

Date_____

EXECUTION OF BID MUST BE SIGNED IN INK

In compliance with the request for bids, subject to all conditions thereof, the undersigned offers and agrees, from the date of bid opening, to furnish any or all the items upon which prices are quoted. Delivery time shall be _____
Consecutive calendar days after Purchase Order, Notice to Proceed and/or Executed Contract is issued.

Evidence of authority to submit the bid shall be required in accordance with R.S. 39:1594(C)(2)(D).

BIDDER_____

BY_____

Signature Authority in Accordance with R.S. 38:22:2212(A)(1)(C) and/or R.S. 39:1594(C)(2)(D)

Title_____

Address_____

Street/Post Office Box City State Zip Code

Telephone/Fax Numbers_____/_____

Return with bid

**SOUTHERN UNIVERSITY AND A&M COLLEGE
BATON ROUGE CAMPUS
GENERAL TERMS AND CONDITIONS
REQUEST FOR BID**

Bid 10308

Bidders must comply with all requirements on these pages, where applicable.

Sealed bids will be received by Southern University, Baton Rouge, Louisiana, in the Purchasing Office, J. S. Clark Administration Building Annex, South Entrance, 1st Floor East until the date indicated for the following:

Laser/Light Flash Test System

INSTRUCTIONS TO BIDDERS

1. Bid Forms

All written bids, unless otherwise provided for, must be submitted on, and in accordance with forms provided and properly signed in ink. Bids submitted in the following manner will not be accepted:

Bid containing no signature indicating intent to be bound

(1) Bid filled out in pencil

(2) Bid not submitted on University standard forms

2. Envelope (if mailed)

Bidders are requested to submit bid package in a sealed envelope of your choice that is clearly marked identifying the *company's name, complete address, bid number, time and date of bid opening, and license number, if applicable.*

Bidder is responsible for means of delivery of bid.

If applicable, Louisiana Contractors License Number shall be placed on the outside of the envelope.

3. Standards of Quality

Any product or service bid shall conform to all applicable federal, state and local laws, regulations and the specifications contained in the IFB. Unless otherwise specified in the IFB, any manufacturer's name, trade name, brand name, or catalog numbers used in the specifications is for the purpose of describing the quality level, performance and characteristics required. Bidder must specify the brand and model number of the product offered in his/her bid. Bids not specifying brand and model numbers will be considered as offering the exact product(s) specified in the IFB.

4. Descriptive Information

Bidders proposing an equivalent brand or model should submit information with bid (such as illustrations, descriptive literature, technical data) sufficient for the University to evaluate quality, suitability and compliance with the specifications. Failure to submit descriptive information may cause bid to be rejected. Any change made to a manufacturer's published specification submitted for a product should be verifiable by the manufacturer. If item(s) bid do not fully comply with specifications (including brand and/or product number), bidder must state in what respect the item(s) deviate. Failure to note exceptions on the bid form will not relieve the successful bidder(s) from supplying the actual products requested.

5. Prices

Unless otherwise specified by the Purchasing Department, bid prices must be complete, including transportation, prepaid by bidder to destination. In the event of extension errors, the unit price shall prevail.

6. Payment Terms

Payment is to be made within thirty (30) days after receipt of properly executed invoice, or delivery and acceptance, whichever is later. Delinquent payment penalties are governed by **L.R.S. 39:1695**.

7. Deliveries

Bids may be rejected if the delivery or completion time indicated is longer than that specified in the IFB.

8. Vendor Invoices

Invoices or AIA payment form shall reference the Southern University purchase/release order number, vendor's packing list/delivery ticket, ticket number, shipping/delivery date, etc. Invoices are to be itemized and billed in accordance with the order and should show the amount of any prompt payment discount and submitted on the vendor's own invoice form. Invoices submitted by the vendor's supplier will not be accepted. Terms are net 30.

9. Tax Information/State of Louisiana

Initial and return with bid/Bid Number 10308-Laser Test System _____

Vendor is responsible for including all applicable taxes in the bid prices. Southern University is exempt from all Louisiana state and local sales and use taxes. By accepting an award, resident and non-resident firms acknowledge their responsibility for the payment of all taxes duly assessed by the State of Louisiana and its political subdivisions for which they are liable, including but not limited to: franchise taxes, privilege taxes, sales taxes, use taxes, ad valorem taxes, etc. In accordance with Act Number 1029 of the 1991 Regular Session, effective September 1, 1991 state agencies will no longer be required to pay state sales tax.

10. Contract Cancellation

Southern University has the right to cancel any contract, in accordance with Purchasing Rules and Regulations, for cause, including but not limited to, the following: (1) failure to deliver within time specified in the contract; (2) failure of the product or service to meet specifications, conform to sample quality or to be delivered in good condition; (3) misrepresentations by the contractor; (4) fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the state; (5) conflict of contract provisions with constitutional or statutory provision of state or federal law; (6) any other breach of contract.

11. AWARD AND EXECUTION OF CONTRACT (if required):

The owner shall incur no obligation to the contractor until the contract between the owner and contractor is duly executed. If the contractor is notified of the acceptance of the bid within thirty (30) days of the opening bid date, contractor agrees to execute and deliver to owner, Performance and Payment Bond and Certificate of Insurance, a copy of which is attached to the Contract Documents, within ten (10) working days after notice from the Owner that the instrument is ready for signature.

12. Fiscal Funding Clause (Renewal Contracts Only)

In accordance with LA R.S.39:1615 (c) and (e), any contract entered into by the State of Louisiana and Southern University shall include the following Fiscal Funding Clause:

C. Termination due to unavailability of funds in succeeding years. When funds are not appropriated to support continuation of performance in a subsequent year of a multiyear contract, the contract for such subsequent year shall be terminated. When a contract is terminated under these conditions, no additional funds shall be paid to the contractor as a result of such action. E. With respect to all multiyear contracts, there shall be no provisions for a penalty to the state for the cancellation or early payment of the contract. The continuation of this contract is contingent upon the appropriation of funds to fulfill the requirements of the contract by the legislature. All proposers should be aware that our legislative process is such that it is often impossible to give prior notice of the non-appropriation of funds.

13. Default of Contractor

Failure to deliver within the time specified in the bid will constitute a default and may cause cancellation of the contract. Where the state had determined the contractor to be in default, the state reserves the right to purchase any or all products or services covered by the contract on the open market and to charge the contractor with cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid from the defaulting contractor will be considered.

14. Order of Priority

In the event there is a conflict between the Instructions to Bidders the General Terms and Conditions will govern.

15. Applicable Law

All contracts will be construed in accordance with and governed by the laws of State of Louisiana. Vendors shall be in compliance with applicable laws of the State of Louisiana and Federal Laws where applicable, to include licenses, fees and permits. Vendors are responsible for the cost of licenses, fees and permits.

16. Certification of No Suspension or Debarment (\$25,000 or more)

By signing and submitting this bid, bidder certifies that its company, any subcontractors, or principals thereof, are not suspended or debarred under federal or state laws or regulations. A list of parties who have been suspended or debarred by federal agencies is maintained by the General Services Administration and can be viewed on the internet at www.sam.gov.

_____ **Federal Funded** _____ **Non-Federal Funded**

17. E-VERIFY (verification of employees)

Contractor acknowledges and agrees to comply with the provisions of La R.S. 38:2212.10 and federal law pertaining to E-Verify in the performance of services under this contract.

18. Prohibited Contractual Arrangements

Per Louisiana R.S. 42:1113.a, no public servant, or member of such public servant's immediate family, or legal entity in which he is a controlling interest shall bid on or enter into any contract, subcontract, or other transaction that is under the supervision or jurisdiction of the agency of such public servant. See statute for complete law, exclusions and provisions.

19. Discriminatory Boycotts of Israel

Initial and return with bid/Bid Number 10308-Laser Test System _____

This section applies to procurements with a value of \$100,000 or more and for vendors with five (5) or more employees

Prohibition of Discriminatory Boycotts of Israel

In accordance with R.S. 39:1602.1, for any contract for \$100,000 or more and for any contractor with five or more employees, the Contractor certifies that neither it nor its subcontractors are engaged in a boycott of Israel, and that the Contractor and any subcontractors shall, for the duration of this contract, refrain from a boycott of Israel. The State reserves the right to terminate this contract if the Contractor, or any Subcontractor, engages in a boycott of Israel during the term of this contract.

20. Mutual Indemnification

Each party hereto agrees to indemnify, defend and hold the other, its officers, directors, agents and employees harmless from and against any and all losses, liabilities and claims, including reasonable attorney's fees arising out of or resulting from the willful act, fault, omission, or negligence of the indemnifying party or of its employees, contractors, or agents in performing its obligations under this agreement, provided however, that neither party hereto shall be liable to the other for any consequential damages arising out of its willful act, fault, omission, or negligence.

21. Fair Labor Standards Act

Contractor shall be in compliance with the **Fair Labor Standards Act 29 USC 201-6**; Establishes minimum wage, overtime pay, equal pay, recordkeeping, and child labor standards for employees or in the production of goods for interstate commerce. **By signing and submitting this bid, bidder certifies that its company, any subcontractors, or principals thereof is in accordance with said compliance. United States Department of Labor website: www.dol.gov/esa**

22. Davis-Bacon Act (\$2,000 or more) if applicable

Contractor shall be in compliance with the **Davis-Bacon Act, 40 USC 276A-7**; ensures that laborers and mechanics employed pursuant to federally funded construction contracts, subcontracts and construction under Federal grants, will be paid wages as determined by the U.S. Secretary of Labor. **By signing and submitting this bid, bidder certifies that its company, any subcontractors, or principals thereof is in accordance with said compliance. United States Department of Labor website: www.dol.gov/esa**

☐ **Federal Funded** ☐ **Non-Federal Funded**

23. Small Business Entrepreneurship Programs

The Southern University System is a participant in the Louisiana for the Small Entrepreneurships Program (the Hudson Initiative) and the Louisiana Initiative for Veterans and Service-Connected Disabled Veterans-Owned Business Small Entrepreneurships. Bidders are encouraged to consider participation. A list of certified vendors and additional information can be obtained from website <http://www.ledsmallbiz.com>. Potential participants may also register at this website. Businesses include minority and women.

24. Public Works Projects (R.S. 38:2227)

In accordance with the provisions of R.S. 38:2227; in awarding public works projects, any public entity is authorized to reject a proposal or bid, or not award the contract, to a business in which any individual with an ownership interest of ten percent (10%) or more, has been convicted, or has entered a plea of guilty or nolo contendere to any state felony or equivalent federal felony crime.

25. Tobacco-Free Policy

The use of tobacco products on any Southern University campus is prohibited by students, staff, faculty or visitors in all campus buildings, facilities, or property owned or leased by Southern University System and outside areas of the campus where non-smokers cannot avoid exposure to smoke; on campus grounds, facilities, or vehicles that are the property of the University; and at lectures, conferences, meetings, and social and cultural events held on school property or school grounds. The sale or free distribution of tobacco products, including merchandise on campus or at school events is prohibited.

26. Equal Opportunity Employer

Southern University and A&M College Systems of the State of Louisiana is an equal opportunity employer and looks to its contractors, sub-contractors, vendors, and suppliers to take affirmative action to effect this commitment in its operations. By submitting and signing this bid, the bidder certifies that he agrees to adhere to the mandates dictated by Title VI and VII of the Civil Rights Act of 1964, as amended; the Vietnam Era Veterans' Readjustment Assistance Act of 1974; Section 303 of the Rehabilitation Act of 1973; Section 202 of Executive Order 11246, as amended; and the Americans with Disabilities Act of 1990. Bidder agrees that he will not discriminate in the rendering of services to and/or employment of individuals because of race, color, religion, sex, age, national origin, handicap, disability, veteran status, or any other non-merit factor. Bidder further agrees to keep informed of and comply with all Federal, State, and local laws, ordinances, and regulations which affect his employees or prospective employees. Any person who is a "Qualified Individual with a Disability" as defined by 42 USC 12131 of the American with Disabilities Act who has submitted a bid on this procurement and who desires to attend the bid opening, must notify this office in writing no later than seven (7) working days prior to the bid opening date of their need for special accommodations. If the requested accommodations cannot be reasonably provided, the individual will be so informed prior to the bid opening.

Initial and return with bid/Bid Number 10308-Laser Test System _____

27. Code of Ethics

The contractor acknowledges that Chapter 15 of Title 42 of the Louisiana Revised Statutes (R.S. 42:1101 et. seq., Code of Governmental Ethics) applies to the Contracting Party in the performance of services called for in this contract. The contractor agrees to immediately notify the state if potential violations of the Code of Governmental Ethics arise at any time during the term of this contract.

28. Vendor Forms/SU Signature Authority

The terms and conditions of the SU solicitation and purchase order/contract shall solely govern the purchase agreement, and shall not be amended by any vendor contract, form, etc. The University's chief procurement officer, or designee, is delegated sole authority to execute any vendor contracts, forms, etc. Departments are prohibited from signing any vendor forms.

29. Prosecution of Work

The work is to be done when Southern University is in operation. The contractor shall, therefore, plan the repairs and installation in specifications so as not to interfere with normal operations of the facility and shall exert effort to expedite completion of the work once it has started. It is intended that the work shall be done during normal working hours, however, should work require overtime (Saturday, Sunday and/or night working hours), the cost must be borne by the contractor at no extra compensation from the Owner (Southern University).

30. On-Campus Attendance Requirements (COVID-19)

The Center for Disease and Control (CDC) recommends social distancing and wearing of masks to prevent the spread of the Coronavirus (COVID19). Persons visiting Southern University are required to wear a mask/face covering and stay at least 6 feet between yourself and others, even when you wear a face covering.

31. Termination of the Contract for Convenience

The State/University may terminate the contract at any time by giving thirty (30) days written notice to the Contractor of such termination or negotiating with the Contractor an effective date. The Contractor shall be entitled to payment for deliverables in progress, to the extent work has been performed satisfactorily.

32. Termination for Cause

The State may terminate this Contract for cause based upon the failure of the Contractor to comply with the terms and/or conditions of the Contract; provided that the State shall give the Contractor written notice specifying the Contractor's failure. If within thirty (30) days after receipt of such notice, the Contractor shall not have either corrected such failure or thereafter proceeded diligently to complete such correction, then the State may, at its option, place the Contractor in default and the Contract shall terminate on the date specified in such notice. The Contractor may exercise any rights available to it under Louisiana law to terminate for cause upon the failure of the Owner to comply with the terms and conditions of this contract; provided that the Contractor shall give the State written notice specifying the State's failure and a reasonable opportunity for the Owner to cure the defect.

33. Auditors

It is hereby agreed that the Legislative Auditor of the State of Louisiana and/or the Office of the Governor, Division of Administration auditors shall have the option of auditing all accounts of contractor which relate to this contract.

34. Awarded Products/Unauthorized Substitutions

Only those awarded brands and numbers stated in the SU contract are approved for delivery, acceptance, and payment purposes. Any substitutions require prior approval of the Purchasing Office. Unauthorized product substitutions are subject to rejection at time of delivery, post-return at vendor's expense, and non-payment.

35. Acceptance (where applicable)

Upon written notice by the Owner, a Notice by Owner of Acceptance of Work will be executed and forwarded to the Contractor for recording with the Clerk of Court in the parish in which the work has been performed and shall furnish a clear Lien Certificate from the Clerk of Court (to the owner along with final invoice) forty-five (45) days after recordation of acceptance. Final payment of ten percent (10%) will be made at this time.

36. Guarantee

It is the intention of the specifications to secure a first-class permanent material and construction and to this end, Contractor will be held responsible for and must correct defects discovered in the work within one (1) year from acceptance. Should any materials or methods be called for, of such nature to render this guarantee impossible, written notice to this effect should be given Owner (Southern University) before signing contract and/or beginning of work; failure to do this will be construed as agreement to the strictest terms of the guarantee.

37. Clean-Up

Initial and return with bid/Bid Number 10308-Laser Test System_____

The Contractor will be directed during the progress of work to remove and properly dispose of the resultant and debris. Upon completion, Contractor shall remove all equipment, unused materials and debris and will leave the premises in a clean and first-class condition.

38. Examination of Site, if applicable

Each bidder will visit the site of the proposed project and will fully acquaint himself with conditions relating to construction and labor so that he may fully understand the facilities, difficulties and restrictions attending the execution of work under this contract. No consideration or allowance will be granted the Contractor for failure to visit the site or for any alleged misunderstanding of the materials to be furnished or the work to be done.

39. Anti-Kickback Clause

The Contractor hereby agrees to adhere to the mandate dictated by The Copeland "Anti-Kickback" ACT which provides that each Contractor or Subgrantee shall be prohibited from inducing, by any means, any person employed in the completion of work, to give up any part of the compensation to which he is otherwise entitled.

40. Clean Air Act

The Contractor hereby agrees to adhere to the provisions which require compliance with all applicable standards, orders or requirements issued under Section 306 of the CLEAN AIR ACT which prohibits the use under non-exempt contracts, grants or loans of facilities included on the EPA list of Violating Facilities.

41. Clean Water Act

The Contractor hereby agrees to adhere to the provisions which require compliance with all applicable standards, orders or requirements issued under Section 508 of the Clean Water Act which prohibits the use under non-exempt federal contracts, grants or loans of facilities included on the EPA list of Violating Facilities.

42. Energy Policy and Conservation Act

The Contractor hereby recognizes the mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

43. Anti-Lobbying and Debarment Act

The Contractor will be expected to comply with federal statutes in the Anti-Lobbying Act and The Debarment Act.

44. Signature Authority

A CORPORATE RESOLUTION OR WRITTEN EVIDENCE OF THE AUTHORITY OF THE PERSON SIGNING THE BID FOR THE PUBLIC WORK AS PRESCRIBED BY LOUISIANA REVISED STATUTE 38:2212 (B)(5)
A copy of the applicable signature authority document/Board Resolution or LA Secretary of State Registration must be submitted with bid.

45. ADDITIONAL REQUIREMENTS, if applicable

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE PLANS; THE PROJECT SPECIFICATIONS, AND SHALL COMPLY WITH APPLICABLE LOCAL AND STATE BUILDING CODES AS WELL AS ANY AND ALL REGULATORY AGENCY REQUIREMENTS AND LAWS, INCLUDING BUT NOT LIMITED TO OSHA, ETC. GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.
2. CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT, IF APPLICABLE, OF ALL CONFLICTS OR DISCREPANCIES PRESENTED IN THESE PLANS PRIOR TO THE START OF WORK.
3. ALL WORK WHETHER SHOWN OR IMPLIED, UNLESS SPECIFICALLY QUESTIONED SHALL BE CONSIDERED UNDERSTOOD IN ALL RESPECTS BY THE GENERAL CONTRACTOR AND WHO WILL BE RESPONSIBLE FOR ANY MISINTERPRETATIONS AND CONSEQUENCES THEREOF.
4. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
5. ENGINEER/ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ALL IDENTIFIED EXISTING UTILITIES NOT IDENTIFIED IN THE PLANS.
6. OWNER SHALL PROVIDE WATER FOR CLEANING OPERATIONS FROM ANY FIRE HYDRANT AT NO COST TO THE CONSULTANT.

VENDOR INFORMATION SHEET

COMPANY _____

AUTHORIZED SIGNATURE _____

PRINT NAME _____

TITLE _____

ADDRESS _____

TELEPHONE _____

EMAIL _____

TAX ID NUMBER _____
(return W9 with documents)

Note: Please register your company with the Louisiana Secretary of State. Vendors are required to register with the Louisiana Secretary of State to do business with Southern University.

Initial and return with bid/Bid Number 10308-Laser Test System _____

Bid Specification: Laser/Light Flash Test System for Measurement of Thermal Properties: Diffusivity, Specific Heat, and Conductivity

1 Introduction

1.1 General Requirements

- 1.1.1 This document constitutes the purchase specification for Laser/Light Flash Test System and accessories for the measurement of thermal properties: diffusivity, specific heat, and conductivity. The system shall include all components necessary for complete system operation including control electronics, pump(s), cables, plumbing and all necessary fittings and connectors. The system shall also include test accessories with the features and capabilities described herein.
- 1.1.2 The components of the test system are to be new. No demonstration or used equipment will be acceptable.
- 1.1.3 The quoted system shall be integrated and compatible with existing laboratory equipment.

1.2 Vendor Response

- 1.2.1 All vendors responding to this bid specification shall include a written line by line response to each paragraph number of this specification. Each item response to be specific and detailed enough to allow full evaluation of the equipment offered and its capabilities. A comply or deviation response only shall not be acceptable.
- 1.2.2 Responding vendors shall include quotations and descriptive literature with their response to allow the buyer to make a complete evaluation and appraisal of the offering with respect to the requirements set forth in this document. Quotations must list line items with separate costs.
- 1.2.3 Bidders shall state estimated delivery times of any equipment offered in response to this specification with the FOB to the Destination, estimated shipping weights and shipping costs to the buyer's facility.
- 1.2.4 Responding vendors shall include a list of utility and service requirements necessary for operation of the offered equipment. Bidders shall include a list of site preparation requirements necessary for the installation and operation of the offered equipment.

2 Laser/Light Flash System

BID NUMBER 10308

2.1 Requirements

- 2.1.1 The system shall enable contactless measurement of thermal diffusivity, specific heat and thermal conductivity in accordance with ASTM E 1461, ASTM C714, ASTM E2585, ISO 13826, ISO 18755, ISO 22007-Part4, ISO 18755, DIN EN821, DIN 30905, DIN EN 1159-2, BS ENV 1159-2.
- 2.1.2 Software for operating the system must be provided.
- 2.1.3 Requirements for the computer to run the system must be provided. Vendor provided computer will not be accepted: Southern will provide the computer that will be networked into the SUBR domain with individual users having separate authentications. The software should be able to run on such a networked computer under each user's login.
- 2.1.4 The possible specimen temperatures must span Room Temperature thru 1300 °C and be controllable via the software.
- 2.1.5 In addition to heating, a cooling mechanism with appropriate coolants for specimen temperature control must be provided.
- 2.1.6 The sample holder must allow for measurements on at least four different specimen in a single test setup – with auto-sequencing via the software.
- 2.1.7 The system must be capable of admitting two different gases into the sample chamber for purging and/or establishing an oxidative environment with software based control of the flow rate of each gas.
- 2.1.8 The system must be capable of admitting one protective gas/liquid into the detector with software based control of the flow rate of this gas/liquid.
- 2.1.9 Any pump(s) (compressor/vacuum) that are needed to run the system must be provided.
- 2.1.10 The system must operate on 120 V 50 Hz or 208 volts 50 Hz power supply. Any needed transformers for stable operation must be provided.
- 2.1.11 The maximum pulse energy must be specified. Via the software the laser/light energy pulse must be both tunable and map-able for yielding accurate measurements.
- 2.1.12 The system, together with its accessories, must yield measurements of diffusivity, and conductivity to within 3% of their true values and the specific heat to within 4% of its true value. Repeatability of all measurements must be to within 2% of their true values.

3 Accessories

3.1 Specimen sizes and shapes

- 3.1.1 Accessories must be provided to handle specimen with thickness in the range < 1 mm to 10 mm.
- 3.1.2 Accessories must be provided to handle round specimen of diameter 8 mm, 10 mm, 12.7 mm, 25.4 mm, and square specimen of side length 8 mm, and 10 mm, and in-plane holder for thin samples

3.2 Reference specimen

BID NUMBER 10308

- 3.2.1 Two specimen each of the following references (with data sheets) must be provided:
Molybdenum, Pyroceram 9606, POCO graphite, Stainless Steel 310, Copper

4 System Services

4.1 System Checkout

- 4.1.1 Responding vendors shall include system startup and checkout of the test system and accessories at the buyer's facility.

4.2 System Documentation

- 4.2.1 A complete set of operation and maintenance (including installation and troubleshooting) manuals shall be provided as both hard and soft (electronic) copies.

4.3 Calibration

- 4.3.1 Each of the calibrations for every transducer shall be traceable to the United States National Institute of Standards and Technology (NIST). A certificate shall be provided for each transducer range, which gives traceability to a national standard. Mathematical or software manipulation of transducer outputs to produce ranges other than 100% of full scale capacity is not acceptable.

4.4 Installation and Training

- 4.4.1 This installation must also include on-site training by a skilled service technician on basic system and software operation.
- 4.4.2 The supplier shall offer an additional factory training course on the test design taught by skilled personnel.

4.5 System Support

- 4.5.1 The supplier shall supply, at no extra cost, technical support of the test system after the sale. The supplier will provide this support via a toll-free telephone number and internet email. Suppliers shall have a previous record of responsiveness and must work to provide responses to technical inquiries immediately.
- 4.5.2 Yearly Preventive Maintenance, that includes needed cleaning and re-calibration, must be quoted.

ADVERTISEMENT

REQUEST FOR BID

Sealed bids will be received by Southern University, Baton Rouge, Louisiana, in the Purchasing Office, J. S. Clark Administration Building Annex, South Entrance, 1st Floor East until the date indicated for the following:

LASER/ LIGHT FLASH TEST SYSTEM
Southern University and A&M College
Fine & Performing Arts/Music Department
Baton Rouge Campus
BID NUMBER 10308
March 24, 2023 @ 10:30 AM

Any person requiring special accommodations should notify the Purchasing Office of the type(s) of accommodation required not less than seven (7) days before the bid opening date.

Inquiries will be accepted until March 17, 2023 by 5:00 p.m. Inquiries shall be submitted to Linda Antoine at linda_antoine@subr.edu. Responses to inquiries-March 21, 2023 by 5:00 pm.

Bids shall be received no later than March 24, 2023 @ 10:30 AM

Bids may be withdrawn by written, telegraphic or fax notice received at the address designated in the Invitation to Bid prior to the time set for bid opening, as recorded by date stamp at the Purchasing Office. Bids received after closing time will be returned unopened. Evidence of authority to submit the bid shall be required in accordance with R.S. 38:2212(a)(1)(c) and/or R.S. 39:1594(c)(2)(d).

The Southern University System is a participant in the Louisiana for the Small Entrepreneurships Program (the Hudson Initiative) and the Louisiana Initiative for Veterans and Service-Connected Disabled Veterans-Owned Business Small Entrepreneurships. Bidders are encouraged to consider participation. A list of certified vendors and additional information can be obtained from website <http://www.ledsmallbiz.com>. Potential participants may also register at this website.

ALL BID SPECIFICATIONS AND ADDENDA CAN BE OBTAINED BY ACCESSING WEBSITE <https://www.cfprd.doa.louisiana.gov/osp/lapac/pubMain.cfm>.

Please contact Mary Jane Spruel, Assistant Director @ (225) 771-2800 or 771-2804 or maryjane_spruel@subr.edu for questions concerning this advertisement and bid documents,

The University reserves the right to award all or done and to reject any and all bids and to waive any informalities incidental thereto. Bids will be accepted from contractors under the Classification of: 41000000 Laboratory and Testing Equipment, 41110000 Measuring Equipment, 41112400 Control Instruments-Laser Flash Test System

SOUTHERN UNIVERSITY & A&M COLLEGE
Linda A. Antoine, Director of Purchasing

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